

## Message Text

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ACTION OES-07

INFO OCT-01 EUR-12 EA-12 ISO-00 SSO-00 NSCE-00 INRE-00  
ACDA-12 CIAE-00 INR-10 IO-14 L-03 NSAE-00 EB-08  
NRC-07 SS-15 SP-02 CEQ-01 /104 W  
-----000197 231523Z /53

O 231454Z FEB 78  
FM AMEMBASSY VIENNA  
TO SECSTATE WASHDC IMMEDIATE 5285  
INFO USDOEHQ WASHDC IMMEDIATE  
USDOEHQ GERMANTOWN IMMEDIATE  
AMEMBASSY TOKYO IMMEDIATE  
BROOKHAVEN UPTON NEW YORK IMMEDIATE

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USIAEA

DEPT PASS IO/SCT

DOE PASS AMMONS, IA

BROOKHAVEN PASS ISPO

E.O.11652: N/A  
TAGS: IAEA, TECH, PARM  
SUBJECT: JOINT JAPAN-US-IAEA PROGRAM AT TOKAI

REF: STATE 4667

1. IAEA PARTICIPANTS MARCH 1-2 PROBABLY WILL BE B. CLARK  
(DIVISION OF DEVELOPMENT) WHO IS CURRENTLY IN JAPAN, AND  
L. THORNE WHO WILL BE IN JAPAN FOR INSPECTION. N. BEYER  
POSSIBLE ALTERNATE IF CLARK CANNOT REMAIN IN JAPAN FOR " "  
THE MEETING.

2. MISSION GAVE IAEA COPY REFTEL, ITEM 4. TEXT OF  
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\* INFORMAL COMMENTS PREPARED BY B.E.CLARK, M. DE CAROLIS  
' AND D.E. RUNDQUIST AFTER SEEING REFTEL FOLLOW: RECOMMEND  
' ADVISE U.S. DELEGATION: "

BEGIN TEXT. GENERAL STATEMENTS ON TRILATERAL AGREEMENT

1. AGENCY SHOULD BE DIRECTLY INVOLVED IN THOSE FEATURES THAT THE AGENCY FEELS ARE OF VALUE TO THE IAEA EFFORTS. THIS INCLUDES ANY

- A) STUDY WITH AGREEMENT ON CONCLUSIONS
- B) DESIGN OF HARDWARE
- C) INSTALLATION OF HARDWARE
- D) AND MOST IMPORTANTLY ON THE USE OF THE HARDWARE.

2. THERE SHOULD BE A CLARIFICATION ON THE FUNDING FOR THE PROCUREMENT OF HARDWARE AND THE MAINTENANCE OF THE HARDWARE. WILL THE U.S. PICK UP THE TOTAL COST WHICH MIGHT INCLUDE TRAVEL ON THE PART OF THE AGENCY TO THE U.S. OR JAPAN?

3. THERE SHOULD BE CLARIFICATION ON THE CONTROL OF ANY SYSTEM THAT IS INSTALLED. WILL THE EQUIPMENT BE AGENCY OR JAPANESE; IF JAPANESE, THE AGENCY RIGHTS SHOULD BE STATED.

4. FOR INDEPENDENCE IDVN KAXWBRYFDROLVXY MSHOAVE ACCESS TO STANDARDS THAT MEET THE AGENCY'S NEEDS. WHO WILL PROCURE THE STANDARDS?

SPECIFIC POINTS OF INTEREST TO AGENCY  
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4.A. EVALUATION OF PERFORMANCE AND APPLICATION OF SURVEILLANCE DEVICES IN THE SPENT FUEL RECEIVING AREA

INTERESTED IN TESTING ASSISTANCE FOR EQUIPMENT INSTALLED AS PART OF THIS PROGRAMME, BUT NOT ON PRESENTLY INSTALLED AGENCY SURVEILLANCE EQUIPMENT.

AGENCY MOST INTERESTED IN AN INTEGRATED AND AUTOMATED CONTAINMENT AND SURVEILLANCE SYSTEM. JUST REPLACING EQUIPMENT IS NOT SUFFICIENT.

4.B. COLLECTION AND ANALYSIS OF GAMMA SPECTRA OF IRRADIATED FUEL ASSEMBLIES MEASURED AT THE STORAGE POND

AGENCY THINKS A MEASUREMENT SYSTEM SHOULD BE DESIGNED AND INSTALLED AND POSSIBLY INCLUDED IN THE INTEGRATED SYSTEM DESCRIBED IN 4.A.

.

4.C. DEMONSTRATION OF HULL-MONITORING SYSTEM

AGENCY HAS AN ON-GOING INTEREST.

4.D. DEMONSTRATION OF INSTRUMENTAL TECHNIQUE FOR MEASUREMENT OF SOLUTION WEIGHT IN THE ACCOUNTABILITY VESSEL (LOAD CELL)

THE EQUIPMENT WAS INSTALLED AS PART OF AN AGENCY CONTRACT, THERE ARE PROBLEMS THAT AGENCY WOULD APPRECIATE ASSISTANCE WITH.

4.E. DEMONSTRATION OF INSTRUMENTED TECHNIQUES FOR MEASUREMENT OF SOLUTION VOLUME IN ACCOUNTABILITY VESSELS  
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AGENCY INTERESTED, ESPECIALLY IN THE PLUTONIUM NITRATE STORAGE AREA. SYSTEM DESIGN SHOULD EVENTUALLY PROVIDE FOR A CAPABILITY OF MAKING PU CONCENTRATION MEASUREMENTS ON THE SAME TANK. SOME THOUGHT SHOULD BE GIVEN TO RE-CALIBRATION OF ACCOUNTABILITY VESSELS.

4.F. STUDY OF APPLICATION OF DYMAC PRINCIPLE TO SAFE-  
GUARDS

AGENCY WOULD LIKE TO BE INFORMED OF RESULTS.

4.G. K-EDGE DENSITOMETER FOR MEASURING PLUTONIUM PRODUCT  
CONCENTRATION

AGENCY INTERESTED, PARTICULARLY IN TECHNIQUES FOR CALI-  
BRATING THIS METHOD.

4.H. HIGH RESOLUTION GAMMA SPECTROMETER FOR PLUTONIUM  
ISOTOPIC ANALYSIS

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THERE IS AN URGENT NEED NOW FOR THIS INSTRUMENT, STAND-  
ARDS, AND AN ESTABLISHED PROCEDURE.

4.I. PRODUCT LOAD-OUT AREA MONITORING

AGENCY WOULD LIKE TO BE INFORMED OF RESULTS.

4.J. RESIN BEAD SAMPLING AND ANALYTICAL TECHNIQUE

THIS TASK COMPLEMENTS A PRESENT AGENCY PROGRAMME.

4.K. ISOTOPIC SAFEGUARDS TECHNIQUES (IST)

TASK COMPLEMENTS PRESENT AGENCY PROGRAMMES. END TEXT.  
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## Message Attributes

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**Capture Date:** 01 jan 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
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**Copy:** SINGLE  
**Draft Date:** 23 feb 1978  
**Decaption Date:** 01 jan 1960  
**Decaption Note:**  
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**Disposition Approved on Date:**  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
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**Subject:** JOINT JAPAN-US-IAEA PROGRAM AT TOKAI  
**TAGS:** TECH, PARM, JA, US, IAEA  
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**Type:** TE  
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**Review Markings:**  
Sheryl P. Walter  
Declassified/Released  
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**Markings:** Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014